

KEWANEE



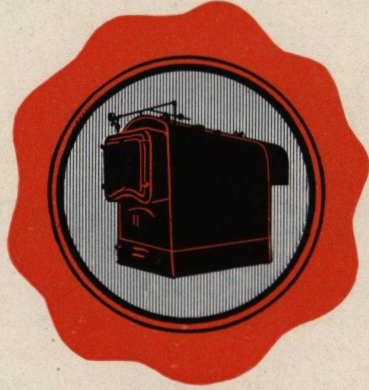
CATALOG 84

TYPE C

BOILERS



KEWANEE



STEEL BOILERS

Electric-Weld

TYPE C SMOKELESS

Catalog No. 84_a

Section 1

Coal Burning Boilers

(Oil burning boilers shown in 2nd section)

KEWANEE BOILER CORPORATION

KEWANEE, ILLINOIS

Branches in Principal Cities

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Printed in U. S. A.

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KEWANEE presents in this catalog its most recent series of steel heating boilers of the more compacted shape.

This particular design of boiler is not new in itself—a basic patent having been taken out in 1873—but several modifications have been brought to the front during the last few years in an attempt to fill a definite demand in the heating business for a boiler of limited bulk which may be adapted to restricted accommodations.

The Kewanee Boiler Corporation has just developed some processes of manufacture which have made it possible to overcome the inherent weaknesses of earlier models on the market and Kewanee improvements have made it permissible to sponsor this line of the fore-shortened type of boiler fortified with the guarantee of the Kewanee name.

Kewanee Type C boiler exemplifies the latest in expert thought... it is built of steel plate... seven simple shapes... solidly welded into a homogeneous unit by the well-proven electric metallic-arc-puddling process, same as has been used on welded details of Kewanee boilers for the past ten years.

Type C Smokeless boiler is built to the A. S. M. E. Code for low pressure heating boilers, it is a *real* boiler in construction—a scientifically designed steam generator:—

The furnace has extra width and height with an arch arranged to promote complete combustion. The space is proportioned to handle the expanded volume of the products of combustion.

Long travel back and forth for the flue gases prevents them escaping up the stack at too high a temperature.

The water content is ample to absorb all the useful heat without undue disturbance, and rapid circulation sweeps the steam bubbles through FREE WATER WAYS provided by improved design. The water line remains steady.

Another improved factor keeps the top flues under the water line—in other makes the water line would be 3 or 4 inches higher under like conditions. In Type C, the disengaging area is unbroken. There is no priming and the liberation of steam is unimpeded. The steam space above has unusual height to insure a continuous flow of dry steam into the heating system.

The purchaser who is figuring on a simple, economical heating boiler that will make plenty of steam efficiently, with low expense for fuel and repairs in actual operation, will find in this compact Type C boiler the reliable solution of his problem.

Particular attention is directed to an exclusive Kewanee improvement—the CORRUGATED CROWN SHEET shown on page 8 of this catalog.



KEWANEE STEEL BOILER

Electric-Weld

TYPE C SMOKELESS

For Burning Coal

Numbers 750 to 770—to Heat 2300 to 32000 Sq. Ft. Radiation.

— K E W A N E E —

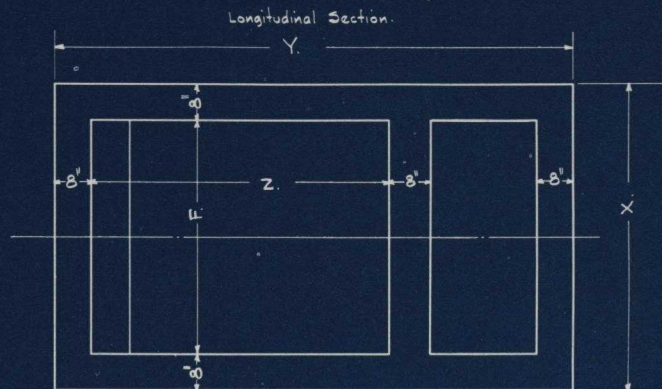
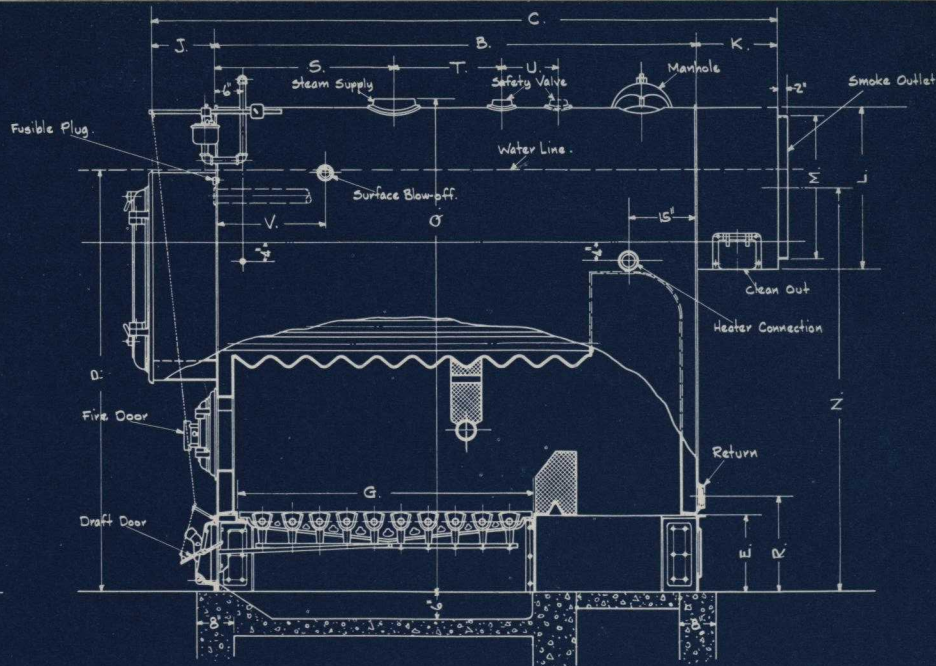
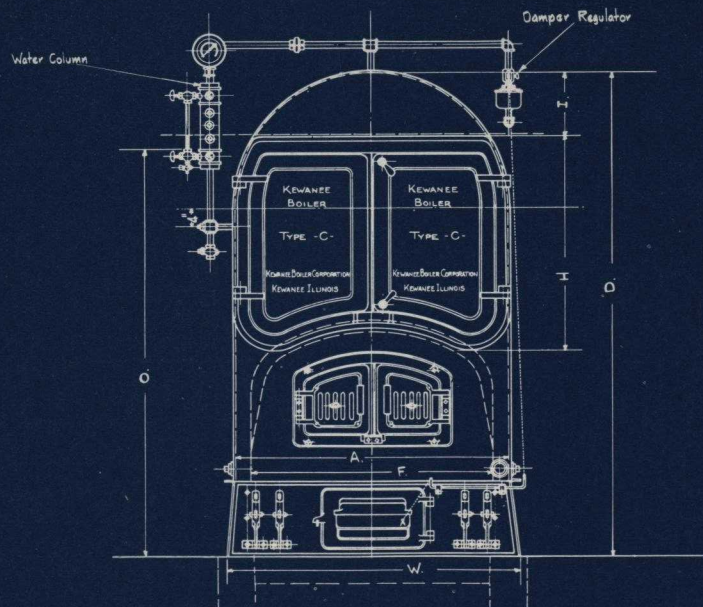
KEWANEE STEEL BOILER *Electric-Weld* TYPE C SMOKELESS — SPECIFICATIONS For Burning Coal

Number of Boiler	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
Code	Cabdo	Cabem	Cabgy	Cabop	Cabur	Cacen	Cacip	Cache	Cacor	Cacus	Cadan	Cadep	Cadgo	Cadir	Cados	Cadut	Cafis	Cafot	Cagar	Cahas	Cahet
Capacity, Steam Boiler . . . sq. ft.	2300	2900	3500	4000	4500	5000	5500	6000	7000	8000	9000	10500	12000	14000	16000	18000	20000	22000	25000	28000	32000
Heating Surface . . sq. ft.	192	232	262	290	325	375	425	462	498	640	686	775	865	1025	1170	1333	1482	1608	1824	2056	2362
Area of Grate . . . sq. ft.	9.1	10.3	11.6	12.4	13.9	15.5	18.0	19.7	21.5	22.4	24.3	24.7	26.9	27.6	30.1	32.9	35.6	36.0	38.9	42.1	45.2
Width of Boiler . . . in.	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72	78	78	84	84
Length of Boiler . . . in.	57	68	76	70½	78½	90	73	79	85	96½	103	96½	107	115	130	118½	131	130	146½	131	149
Overall Height, Floor to Top of Shell in.	77½	77½	77½	83½	83½	83½	97	97	97	99	99	108½	108½	111½	111½	117½	117½	121½	121½	135	135
Overall Length of Boiler ft. in.	6-5	7-4	8-0	7-10½	8-6½	9-6	8-3	8-9	9-3	10-3½	11-10	10-4½	11-3	11-11	13-2	12-8½	13-9	13-8	15-0½	13-9	15-3
Height of Water-line . in.	69	69	69	72	72	72	82	82	82	85	85	94	94	95	95	101	101	103	103	114	114
Approx. Weight, Pounds .	4600	5100	5500	6000	6500	7100	8000	8500	9000	11000	11700	12900	14000	16300	17900	19800	21300	22600	24700	28400	31300

Rated Capacity for Water Boiler is 60% Greater than Capacity of Steam Boiler

KEWANEE STEEL BOILER *Electric-Weld* TYPE C SMOKELESS — SPECIFICATIONS—(Cont.) For Burning Coal

Number of Boiler	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
Length of Firebox . . . in.	50	62	70	64	72	84	67	73	79	90	97	89	100	107	122	111	122	123	139	123	141
Width of Firebox . . . in.	30	30	30	36	36	36	42	42	42	47½	47½	52½	52½	58½	58½	64	64	70	70	76	76
Height of Firebox . . . in.	26	26	26	29	29	29	32	32	32	34	34	36	36	38	38	40	40	42	42	42	42
Size of Steam Opening . in.	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10
Size of Return Opening in.	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
Size of Safety Valve Opening . . . in.	2	2	2	2	2	2½	2½	3	3	3	3½	3½	3½	3½	4	4	2-2½	2-2½	2-3	2-3	2-3
5 Diameter of Breeching, One Boiler in.	22	22	22	24	24	24	26	26	26	28	28	32	32	34	34	36	36	40	40	42	42
Diameter of Stack, One Boiler in.	20	20	20	22	22	22	24	24	26	26	28	30	30	32	32	34	34	38	38	40	40
Min. Height of Stack, One Boiler ft.	50	50	55	55	55	60	60	60	65	65	65	70	70	70	70	80	90	90	90	100	100
Diameter of Breeching, Two Boilers in.	30	30	30	34	34	34	38	38	40	40	44	46	46	50	50	52	52	54	56	56	56
Diameter of Stack, Two Boilers in.	28	28	28	31	31	31	34	34	36	36	40	42	42	46	46	48	48	52	54	54	54
Min. Height of Stack, Two Boilers ft.	60	60	65	65	65	70	70	70	75	75	75	80	80	80	80	90	100	100	100	110	110
Outside Surface to Cover sq. ft.	69	80	89	93	102	115	116	124	132	155	165	172	187	210	234	231	252	265	294	294	328



KEWANEE STEEL BOILER

Electric-Weld

TYPE C SMOKELESS

FOR BURNING COAL
Numbers 750 to 770

Section showing setting and foundation

Foundation Plan.

KEWANEE STEEL BOILER *Electric-Weld* TYPE C SMOKELESS

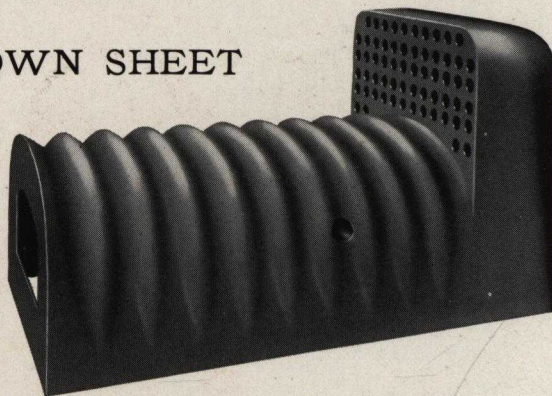
SETTING AND BOILER
MEASUREMENTS
For Burning Coal

Number of Boiler	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
A—Width of Boiler in.	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72	78	78	84	84
B—Length of Boiler ft. in.	4-9	5-8	6-4	5-10 $\frac{1}{2}$	6-6 $\frac{1}{2}$	7-6	6-1	6-7	7-1	8-0 $\frac{1}{2}$	8-7	8-0 $\frac{1}{2}$	8-11	9-7	10-10	9-10 $\frac{1}{2}$	10-11	10-10	12-2 $\frac{1}{2}$	10-11	12-5
C—Overall Length of Boiler . . . ft. in.	6-5	7-4	8-0	7-10 $\frac{1}{2}$	8-6 $\frac{1}{2}$	9-6	8-3	8-9	9-3	10-3 $\frac{1}{2}$	10-10	10-4 $\frac{1}{2}$	11-3	11-11	13-2	12-8 $\frac{1}{2}$	13-9	13-8	15-0 $\frac{1}{2}$	13-9	15-3
D—Overall Height of Boiler . . . in.	77 $\frac{1}{2}$	77 $\frac{1}{2}$	77 $\frac{1}{2}$	83 $\frac{1}{2}$	83 $\frac{1}{2}$	83 $\frac{1}{2}$	97	97	97	99	99	108 $\frac{1}{2}$	108 $\frac{1}{2}$	111 $\frac{1}{2}$	111 $\frac{1}{2}$	117 $\frac{1}{2}$	117 $\frac{1}{2}$	121 $\frac{1}{2}$	121 $\frac{1}{2}$	135	135
E—Height of Ash-Pit Base in.	14	14	14	14	14	14	14	14	14	14	14	17	17	17	17	17	17	17	17	21	21
F—Width of Grates and Ash-Pit . in.	30	30	30	36	36	36	42	42	42	47 $\frac{1}{2}$	47 $\frac{1}{2}$	52 $\frac{1}{2}$	52 $\frac{1}{2}$	58 $\frac{1}{2}$	58 $\frac{1}{2}$	64	64	70	70	76	76
G—Length of Grates in.	44	50	56	50	56	62	62	68	74	68	74	68	74	68	74	74	80	74	80	80	86
H—Height of Front Smokebox . . in.	34	34	34	34	34	34	42	42	42	42	42	48	48	48	48	51	51	52	52	61	61
I—Top of Front Smoke-box to Top of Boiler in.	10	10	10	13	13	13	16	16	16	16	16	16	16	18	18	17	17	19	19	21	21
J—Depth of Front Smokebox . . in.	9	9	9	10	10	10	11	11	11	12	12	12	12	12	12	14	14	14	14	14	14
K—Depth of Rear Smokebox . . in.	11	11	11	14	14	14	15	15	15	15	15	16	16	16	16	20	20	20	20	20	20
L—Height of Rear Smokebox . . in.	26	26	26	29	29	29	35 $\frac{1}{2}$	35 $\frac{1}{2}$	35 $\frac{1}{2}$	35	35	36	36	39	39	43	43	45 $\frac{1}{2}$	45 $\frac{1}{2}$	49 $\frac{1}{2}$	49 $\frac{1}{2}$
M—Diameter of Smoke Outlet . in.	22	22	22	24	24	24	26	26	26	28	28	32	32	34	34	36	36	40	40	42	42
N—Height Smoke Outlet Above Floor in.	64 $\frac{1}{2}$	64 $\frac{1}{2}$	64 $\frac{1}{2}$	69	69	69	79	79	79	81 $\frac{1}{2}$	81 $\frac{1}{2}$	90 $\frac{1}{2}$	90 $\frac{1}{2}$	93	93	96	96	99	99	110	110
O—Height of Water Column . . . in.	67	67	67	70	70	70	80	80	80	82	82	91	91	92 $\frac{1}{2}$	92 $\frac{1}{2}$	98	98	100	100	111 $\frac{1}{2}$	111 $\frac{1}{2}$
P—Height of Water Line in.	69	69	69	72	72	72	82	82	82	85	85	94	94	95	95	101	101	103	103	114	114
Q—Height of Steam Supply . . . in.	79 $\frac{1}{2}$	79 $\frac{1}{2}$	79 $\frac{1}{2}$	85 $\frac{1}{2}$	85 $\frac{1}{2}$	85 $\frac{1}{2}$	99	99	99	101	101	110 $\frac{1}{2}$	110 $\frac{1}{2}$	113 $\frac{1}{2}$	113 $\frac{1}{2}$	119 $\frac{1}{2}$	119 $\frac{1}{2}$	123 $\frac{1}{2}$	123 $\frac{1}{2}$	137	137
R—Height of Return in.	18	18	18	18	18	18	19	19	19	19	19	22	22	22	22	22	22	22	22	26	26
S—Location of Steam Supply . . in.	14	14	16	14	16	18	16	18	21	18	21	18	21	18	21	21	21	21	21	21	24
T—Location of 1st Safety Valve . in.	10	10	10	10	10	11	12	13	14	13	14	13	14	13	14	14	14	14	14	14	15
U—Location of 2nd Safety Valve . in.																	10	10	11	11	12
V—Location of Surface Blow-off . in.	12	12	12	12	12	12	12	12	12	18	24	24	24	24	24	24	24	24	24	24	24
W—Width of Base in.	38 $\frac{1}{2}$	38 $\frac{1}{2}$	38 $\frac{1}{2}$	44 $\frac{1}{2}$	44 $\frac{1}{2}$	44 $\frac{1}{2}$	50 $\frac{1}{2}$	50 $\frac{1}{2}$	50 $\frac{1}{2}$	56 $\frac{1}{2}$	56 $\frac{1}{2}$	63	63	69	69	75	75	81	81	87 $\frac{1}{2}$	87 $\frac{1}{2}$
X—Width of Foundation in.	46	46	46	52	52	52	58	58	58	63 $\frac{1}{2}$	63 $\frac{1}{2}$	68 $\frac{1}{2}$	68 $\frac{1}{2}$	74 $\frac{1}{2}$	74 $\frac{1}{2}$	80	80	86	86	92	92
Y—Length of Foundation in.	66	77	85	80	88	99	82	88	94	106	112	106	115	123	138	127	140	138	154	139	157
Z—Length of Ash-pit in.	44	50	56	50	56	62	62	68	74	68	74	68	74	68	74	74	80	74	80	80	86

CORRUGATED CROWN SHEET

More *EFFECTIVE*
Heating Surface...

Much Greater
Strength...



KEWANEE TYPE C BOILERS all have corrugated crown sheets. This is a feature improvement in the heating boiler field evolved exclusively by Kewanee. Its practical value is not equalled by any other development on the market. In fact its application to the heating boiler firebox is one of the outstanding accomplishments in the past decade of steel boiler building.

The main advantages of the corrugated crown sheet are obvious:—

More heating surface is placed exactly where that surface is most effective in transmitting the radiant heat of the blazing fire to the water in the boiler. Quick steaming results from this greater heat absorption.

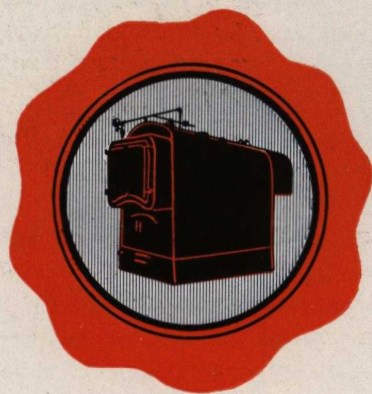
Corrugating gives much greater strength to resist the crushing effect of steam pressure; that means fewer stay bolts are needed. This extra strength makes it possible for the crown sheet to be installed right-side-up instead of inverted, as has been usual in this style of boiler. That superseded practice of inverting the crown sheet is objectionable in that mud and sediment collect in the bagged bottom where the greatest heat is applied, and there is very *ineffective* heating surface around the dead corner pockets at the top edges where soot is deposited from the fire on one side and circulation of water is interfered with on the other side.

The corrugated arched crown sheet installed right-side-up as in the Kewanee Type C boiler gives greater height for better combustion...is self draining and cleaning...the sediment falls to the bottom of the water legs away from the hottest zone where it may readily be washed out.

Another advantage of the corrugated surface is the ease with which it takes up expansion from the heat of the furnace and contraction caused by the rush of cold air when fire door is opened. This compression of the corrugations helps to break-up and dislodge any scale which might tend to adhere to the crown sheet.

The corrugations of the crown sheet, the wide water legs and the large taper rounded corners at the top of the *One-Piece Rear Combustion Chamber* draw a larger water volume to protect the hottest parts, make for more and easier circulation and consequently insure better steaming.

KEWANEE



STEEL BOILERS

Electric-Weld

TYPE C SMOKELESS

Catalog No. 84_a

Section 2

Oil Burning Boilers

(Coal burning boilers shown in 1st section)

KEWANEE BOILER CORPORATION

KEWANEE, ILLINOIS

Branches in Principal Cities

←=====KEWANEE=====→

THE same predominant qualities which make the Kewanee Type C boiler so well adapted for burning coal, apply just as emphatically in making this boiler suitable for burning oil.

Extensive tests have been carried on in the laboratory at Kewanee during the last three or four years with the purpose of developing ideal conditions as to boiler settings, furnace requirements, etc., for burning oil with satisfactory results under all types and sizes of Kewanee boilers when equipped with leading commercial oil burners.

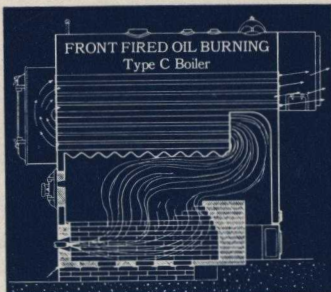
In view of the remarkably high efficiencies attained in numerous instances, we feel that Kewanee is well qualified to give expert advice to customers regarding the methods of installing any oil burners of recognized standing, for either front or rear firing. As a matter of fact, blue prints will be cheerfully furnished showing foundation and setting plan recommended in each particular instance.

It has become an axiom with experts in heating that "if you burn oil and expect to get steam, you must have a boiler that will steam just as well with coal or any other fuel." That is precisely what the Type C steel boiler will do. It will give very high figures for efficiency with any kind of fuel.

And whatever fuel may be under consideration, the purchaser is sure of an economical "buy" in the Kewanee Type C steel boiler. That is to say the first cost will be moderate and the upkeep cost which includes both fuel bill and repairs will be low. Every dollar expended for fuel will produce a high percentage of heat units.

The strong steel plate construction consisting of simple shapes compactly united by the electric-weld method is done in the same shops where the well known Kewanee boilers have been made for 40 years. This is a guarantee that nothing is skimped in workmanship on Type C boilers.

The well balanced features which make Type C a real boiler, designed on the scientific principles enumerated on previous pages, of the coal burning section in this catalog, also hold good for the oil burning boiler, proving its ability to fulfill a definite demand in the heating business for a boiler of minimum advisable dimensions for handling the load for which it is rated.



The corrugated crown sheet detailed on page 8 is a Kewanee feature worthy of careful study.



KEWANEE STEEL BOILER

Electric-Weld

TYPE C SMOKELESS

For Burning Oil

Numbers 750 to 770—to Heat 2800 to 36000 Sq. Ft. Radiation.

KEWANEE

KEWANEE STEEL BOILER *Electric-Weld* TYPE C SMOKELESS — SPECIFICATIONS

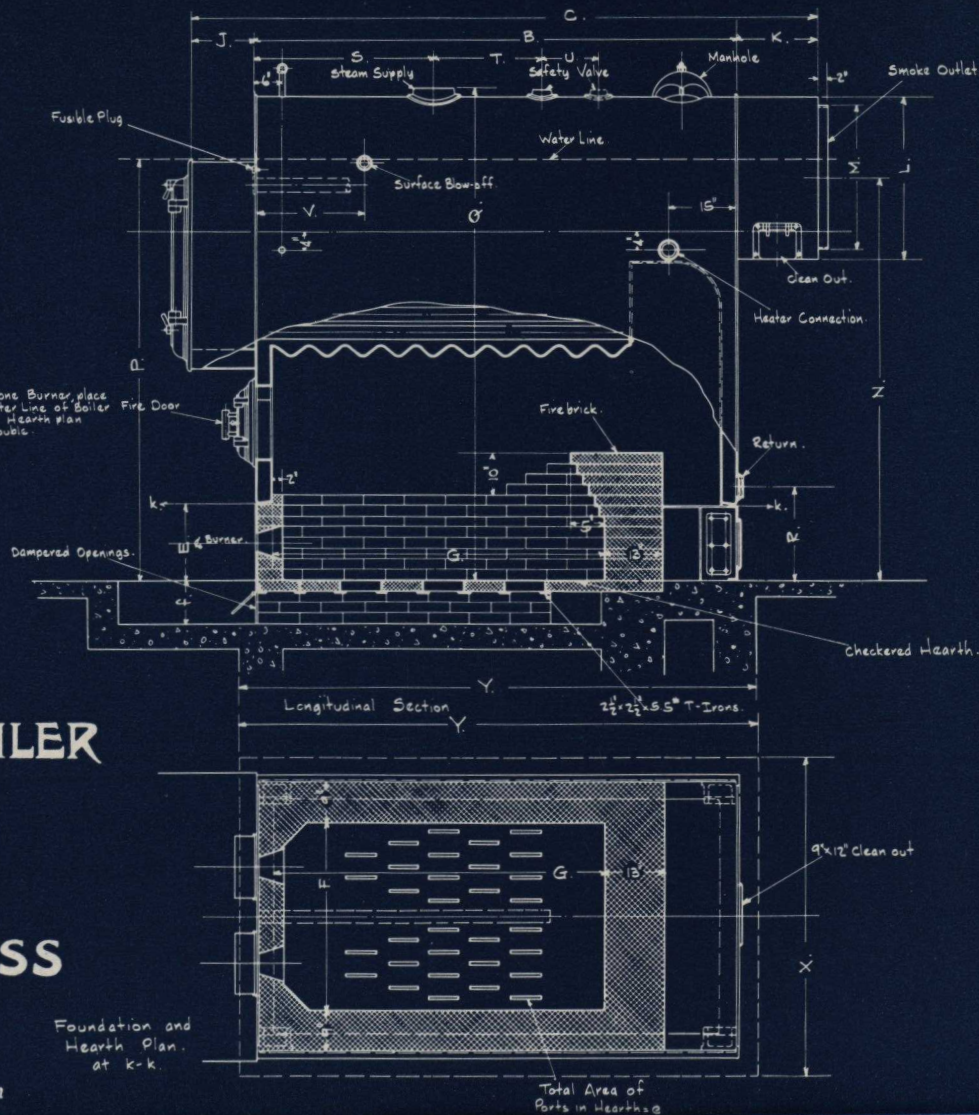
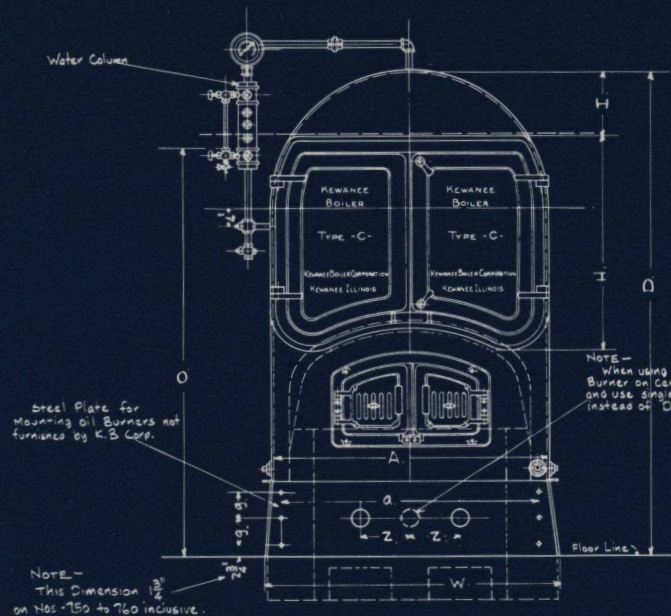
For Burning Oil

Number of Boiler	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
Code	Cabdo	Cabem	Cabgy	Cabop	Cabur	Cacen	Cacip	Cache	Cacor	Cacus	Cadan	Cadep	Cadgo	Cadir	Cados	Cadut	Cafis	Cafot	Cagar	Cahas	Cahet
Capacity, Steam Boiler . . . sq. ft.	2800	3500	4200	4800	5400	6000	6600	7200	8400	9600	10800	12200	14000	16000	18000	21000	23000	25000	28000	32000	36000
Heating Surface . . . sq. ft.	192	232	262	290	325	375	425	462	498	640	686	775	865	1025	1170	1333	1482	1608	1824	2056	2362
Width of Boiler in.	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72	78	78	84	84
Length of Boiler in.	57	68	76	70½	78½	90	73	79	85	96½	103	96½	107	115	130	118½	131	130	146½	131	149
Overall Height, Floor to Top of Shell in.	77½	77½	77½	83½	83½	83½	97	97	97	99	99	108½	108½	111½	111½	117½	117½	121½	121½	135	135
Overall Length of Boiler ft. in.	6-5	7-4	8-0	7-10½	8-6½	9-6	8-3	8-9	9-3	10-3½	10-10	10-4½	11-3	11-11	13-2	12-8½	13-9	13-8	15-0½	13-9	15-3
Height of Water-line . . in.	69	69	69	72	72	72	82	82	82	85	85	94	94	95	95	101	101	103	103	114	114
Approx. Weight, Pounds . .	3800	4200	4600	5000	5400	5900	6600	7000	7300	9200	9600	10600	11500	13700	15100	16600	17800	19200	21100	24300	27000

Rated Capacity for Water Boiler is 60% Greater than Capacity of Steam Boiler

KEWANEE STEEL BOILER *Electric-Weld* TYPE C SMOKELESS — SPECIFICATIONS (Cont.) For Burning Oil

Number of Boiler	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
Length of Firebox . . . in.	50	62	70	64	72	84	67	73	79	90	97	89	100	107	122	111	122	123	139	123	141
Width of Firebox . . . in.	30	30	30	36	36	36	42	42	42	47½	47½	52½	52½	58½	58½	64	64	70	70	76	76
Height of Firebox . . . in.	26	26	26	29	29	29	32	32	32	34	34	36	36	38	38	40	40	42	42	42	42
Size of Steam Opening . in.	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10
Size of Return Opening . in.	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6
Size of Safety Valve Opening in.	2	2	2	2	2	2½	2½	3	3	3	3½	3½	3½	3½	4	4	2-2½	2-2½	2-3	2-3	2-3
Diameter of Breeching, One Boiler in.	22	22	22	24	24	24	26	26	26	28	28	32	32	34	34	36	36	40	40	42	42
Diameter of Stack, One Boiler in.	20	20	20	22	22	22	24	24	26	26	28	30	30	32	32	34	34	38	38	40	40
Min. Height of Stack, One Boiler ft.	50	50	55	55	55	60	60	60	65	65	65	70	70	70	70	80	90	90	90	100	100
Diameter of Breeching Two Boilers in.	30	30	30	34	34	34	38	38	40	40	44	46	46	50	50	52	52	54	56	56	56
Diameter of Stack, Two Boilers in.	28	28	28	31	31	31	34	34	36	36	40	42	42	46	46	48	48	52	54	54	54
Min. Height of Stack, Two Boilers ft.	60	60	65	65	65	70	70	70	75	75	75	80	80	80	80	90	100	100	100	110	110
Number of Fire Brick Required	320	350	390	450	470	490	460	490	520	610	640	720	770	800	850	920	960	990	1050	1220	1300
Outside Surface to Cover sq. ft.	69	80	89	93	102	115	116	124	132	155	165	172	187	210	234	231	252	265	294	294	328



KEWANEE STEEL BOILER

Electric-Weld

TYPE C SMOKELESS

FOR BURNING OIL
Numbers 750 to 770

Section showing setting and foundation

Foundation and
Hearth Plan.
at K-K

KEWANEE STEEL BOILER

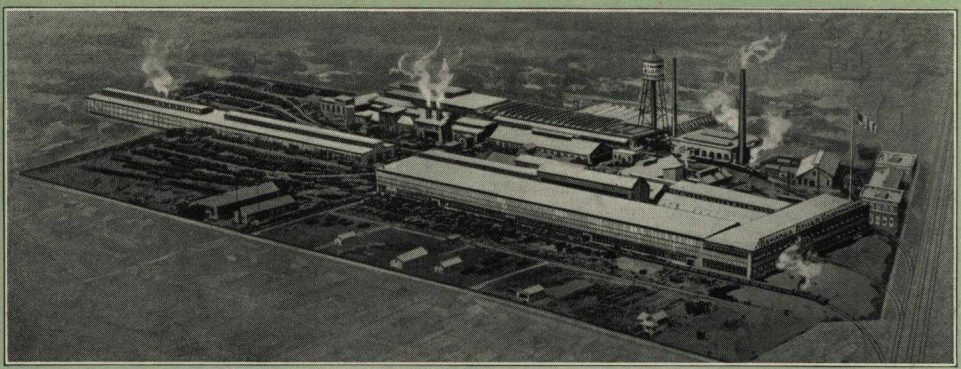
Electric-Weld

TYPE C SMOKELESS

SETTING AND BOILER
SPECIFICATIONS

For Burning Oil

Number of Boiler	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
A—Width of Boiler	in. 36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72	78	78	84	84
B—Length of Boiler	ft. in. 4-9	5-8	6-4	5-10 $\frac{1}{2}$	6-6 $\frac{1}{2}$	7-6	6-1	6-7	7-1	8-0 $\frac{1}{2}$	8-7	8-0 $\frac{1}{2}$	8-11	9-7	10-10	9-10 $\frac{1}{2}$	10-11	10-10	12-2 $\frac{1}{2}$	10-11	12-5
C—Overall Length of Boiler	ft. in. 6-5	7-4	8-0	7-10 $\frac{1}{2}$	8-6 $\frac{1}{2}$	9-6	8-3	8-9	9-3	10-3 $\frac{1}{2}$	10-10	10-4 $\frac{1}{2}$	11-3	11-11	13-2	12-8 $\frac{1}{2}$	13-9	13-8	15-0 $\frac{1}{2}$	13-9	15-3
D—Overall Height of Boiler	in. 77 $\frac{1}{2}$	77 $\frac{1}{2}$	77 $\frac{1}{2}$	83 $\frac{1}{2}$	83 $\frac{1}{2}$	83 $\frac{1}{2}$	97	97	97	99	99	108 $\frac{1}{2}$	108 $\frac{1}{2}$	111 $\frac{1}{2}$	111 $\frac{1}{2}$	117 $\frac{1}{2}$	117 $\frac{1}{2}$	121 $\frac{1}{2}$	121 $\frac{1}{2}$	135	135
E—Height of Base	in. 14	14	14	14	14	14	14	14	14	14	14	17	17	17	17	17	17	17	17	21	21
F—Width of Furnace	in. 18	18	18	24	24	24	30	30	30	36	36	42	42	48	48	54	54	60	60	66	66
G—Length of Furnace	in. 44	50	60	54	58	62	57	63	69	68	74	68	76	72	81	85	92	88	98	98	110
H—Height of Front Smokebox	in. 34	34	34	34	34	34	42	42	42	42	42	48	48	48	48	51	51	52	52	61	61
I—Top of Front Smokebox to Top of Boiler	in. 10	10	10	13	13	13	16	16	16	16	16	16	16	18	18	17	17	19	19	21	21
J—Depth of Front Smokebox	in. 9	9	9	10	10	10	11	11	11	12	12	12	12	12	12	14	14	14	14	14	14
K—Depth of Rear Smokebox	in. 11	11	11	14	14	14	15	15	15	15	15	16	16	16	16	20	20	20	20	20	20
L—Height of Rear Smokebox	in. 26	26	26	29	29	29	35 $\frac{1}{2}$	35 $\frac{1}{2}$	35 $\frac{1}{2}$	35	35	36	36	39	39	43	43	45 $\frac{1}{2}$	45 $\frac{1}{2}$	49 $\frac{1}{2}$	49 $\frac{1}{2}$
M—Diameter of Smoke Outlet	in. 22	22	22	24	24	24	26	26	26	26	28	32	32	34	34	36	36	40	40	42	42
N—Height Smoke Outlet Above Floor	in. 64 $\frac{1}{2}$	64 $\frac{1}{2}$	64 $\frac{1}{2}$	69	69	69	79	79	79	81 $\frac{1}{2}$	81 $\frac{1}{2}$	90 $\frac{1}{2}$	90 $\frac{1}{2}$	93	93	96	96	99	99	110	110
O—Height of Water Column	in. 67	67	67	70	70	70	80	80	80	82	82	91	91	92 $\frac{1}{2}$	92 $\frac{1}{2}$	98	98	100	100	111 $\frac{1}{2}$	111 $\frac{1}{2}$
P—Height of Water Line	in. 69	69	69	72	72	72	82	82	82	85	85	94	94	95	95	101	101	103	103	114	114
Q—Height of Steam Supply	in. 79 $\frac{1}{2}$	79 $\frac{1}{2}$	79 $\frac{1}{2}$	85 $\frac{1}{2}$	85 $\frac{1}{2}$	85 $\frac{1}{2}$	99	99	99	101	101	110 $\frac{1}{2}$	110 $\frac{1}{2}$	113 $\frac{1}{2}$	113 $\frac{1}{2}$	119 $\frac{1}{2}$	119 $\frac{1}{2}$	123 $\frac{1}{2}$	123 $\frac{1}{2}$	137	137
R—Height of Return	in. 18	18	18	18	18	18	19	19	19	19	19	22	22	22	22	22	22	22	22	26	26
S—Location of Steam Supply	in. 14	14	16	14	16	18	16	18	21	18	21	18	21	18	21	21	21	21	21	21	24
T—Location of 1st Safety Valve	in. 10	10	10	10	10	11	12	13	14	13	14	13	14	13	14	14	14	14	14	14	15
U—Location of 2nd Safety Valve	in. 12	12	12	12	12	12	12	12	12	18	24	24	24	24	24	24	24	24	24	24	24
V—Location of Surface Blow-off	in. 12	12	12	12	12	12	12	12	12	18	24	24	24	24	24	24	24	24	24	24	24
W—Width of Base	in. 38 $\frac{1}{2}$	38 $\frac{1}{2}$	38 $\frac{1}{2}$	44 $\frac{1}{2}$	44 $\frac{1}{2}$	44 $\frac{1}{2}$	50 $\frac{1}{2}$	50 $\frac{1}{2}$	50 $\frac{1}{2}$	56 $\frac{1}{2}$	56 $\frac{1}{2}$	63	63	69	69	75	75	81	81	87 $\frac{1}{2}$	87 $\frac{1}{2}$
X—Width of Foundation	in. 46	46	46	52	52	52	58	58	58	63 $\frac{1}{2}$	63 $\frac{1}{2}$	68 $\frac{1}{2}$	68 $\frac{1}{2}$	74 $\frac{1}{2}$	74 $\frac{1}{2}$	80	80	86	86	92	92
Y—Length of Foundation	in. 66	77	85	80	88	99	82	88	94	106	112	106	115	123	138	127	140	138	154	139	157
Z—Location of Burners	in. 4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	8 $\frac{1}{2}$	8 $\frac{1}{2}$	9 $\frac{1}{2}$	9 $\frac{1}{2}$	11	11	12 $\frac{1}{2}$	12 $\frac{1}{2}$	14	14	15	15
a—Bolt Centers in Front Plate	in. 31 $\frac{1}{2}$	31 $\frac{1}{2}$	31 $\frac{1}{2}$	37 $\frac{1}{2}$	37 $\frac{1}{2}$	37 $\frac{1}{2}$	43 $\frac{1}{2}$	43 $\frac{1}{2}$	43 $\frac{1}{2}$	49 $\frac{1}{2}$	49 $\frac{1}{2}$	55 $\frac{1}{2}$	55 $\frac{1}{2}$	61 $\frac{1}{2}$	61 $\frac{1}{2}$	67 $\frac{1}{2}$	67 $\frac{1}{2}$	73 $\frac{1}{2}$	73 $\frac{1}{2}$	79 $\frac{1}{2}$	79 $\frac{1}{2}$
e—Total Area of Ports in Hearth	sq. in. 46	60	70	80	90	100	110	120	140	160	180	210	240	280	320	360	400	440	490	560	630
f—Depth of Pit	in. 9	9	9	9	9	9	10	10	10	10	10	10	10	11	11	11	11	13	13	13	13
g—Bolt Centers in Front Plate	in. 4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	4 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	5 $\frac{3}{4}$	7 $\frac{3}{4}$	7 $\frac{3}{4}$
Size of Dampened Opening	in. 6x8	6x10	6x12	6x13	6x15	6x17	7x16	7x17	7x20	7x23	7x25	2-7x15	2-7x18	2-8x18	2-8x20	2-8x22	2-8x25	2-10x22	2-10x25	2-10x28	2-10x30



Kewanee Boilers are all built in this plant—33 acres of ground—11 acres of buildings

KEWANEE BOILERS

ALL TYPES LISTED MAY BE SHIPPED FROM STOCK

Catalogs Give the Details

Series	Type of Boiler	Sq. Ft. Radiation	Capacity
0—20	Brickset Up-Draft Firebox.....	{ Coal... 700—14000 Oil... 800—18000	
104—120	Brickset Down-Draft Firebox.....	{ Coal... 1600—16000 Oil... 2200—20000	
307—324	Portable Down-Draft Firebox.....	{ Coal... 3000—30000 Oil... 4000—36000	
407—424	Portable Up-Draft Firebox.....	{ Coal... 2500—28000 Oil... 3500—33000	
0K—20K	Portable Up-Draft Firebox—Type K....	{ Coal... 600—13300 Oil... 700—17000	
104K—120K	Portable Down-Draft Firebox—Type K..	{ Coal... 1500—15200 Oil... 2000—18500	
750—770	Portable Smokeless—Type C.....	{ Coal... 2300—32000 Oil... 2800—36000	
832—843	Portable Up-Draft Bulldog.....	{ Coal... 6600—33600 Oil... 8300—38000	
932—943	Portable Down-Draft Bulldog.....	{ Coal... 7200—36000 Oil... 9000—40000	

Separate Catalogs on

Kewanee Steel Water Heating Garbage Burners,
Tabasco Water Heaters and Tanks, Kewanee Power
Boilers and Kewanee Radiators, Sent on Request

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